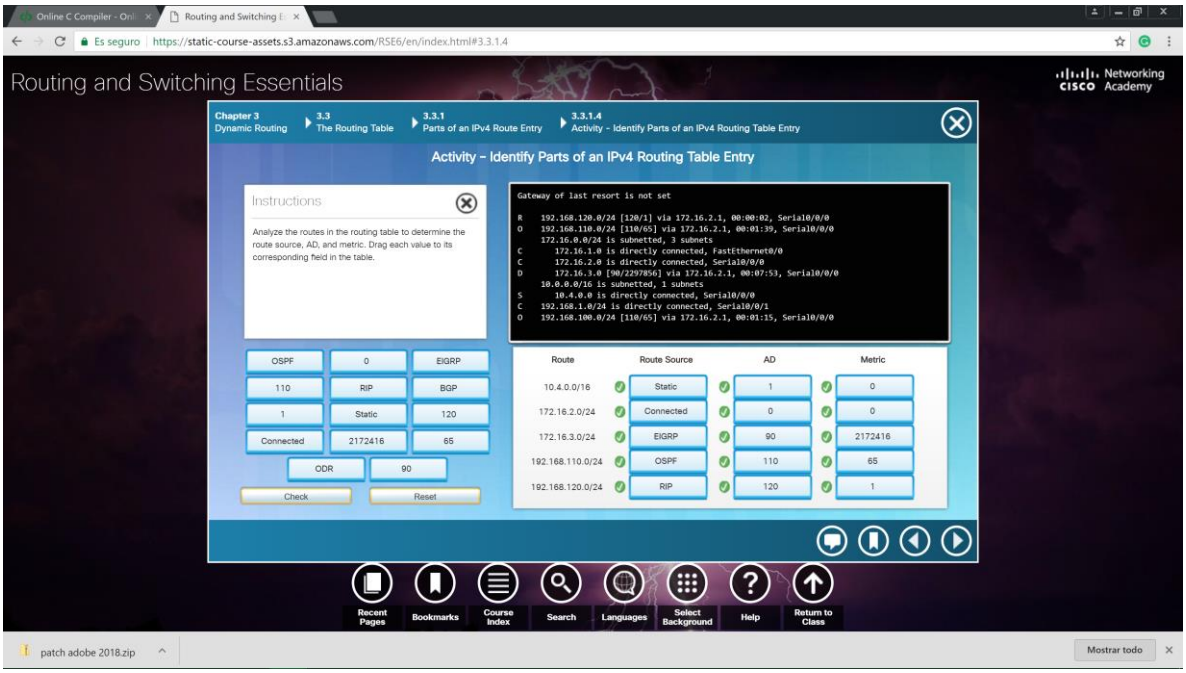
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3.3 The Routing Table
3.3.1 Parts of an IPv4 Route Entry
3.3.1.4 Activity - Identify Parts of an IPv4 Routing Table Entry
Activity – Identify Parts of an IPv4 Routing Table Entry
Instructions
Analyze the routes in the routing table to determine the route source, AD, and metric. Drag each value to its corresponding field in the table.
Gateway of last resort is not set
R 192.168.120.0/24 [120/1] via 172.16.2.1, 00:00:02, Serial0/0/0
O 192.168.110.0/24 [110/65] via 172.16.2.1, 00:01:39, Serial0/0/0
172.16.0.0/24 is subnetted, 3 subnets
C 172.16.1.0 is directly connected, FastEthernet0/0
C 172.16.2.0 is directly connected, Serial0/0/0
D 172.16.3.0 [90/2297856] via 172.16.2.1, 00:07:53, Serial0/0/0
10.0.0.0/16 is subnetted, 1 subnets
S 10.4.0.0 is directly connected, Serial0/0/0
C 192.168.1.0/24 is directly connected, Serial0/0/1
O 192.168.100.0/24 [110/65] via 172.16.2.1, 00:01:15, Serial0/0/0
OSPF
0
EIGRP
110
RIP
BGP
1
Static
120
Connected
2172416
65
ODR
90
Check
Reset
Route
Route Source
AD
Metric
10.4.0.0/16
Static
1
0
172.16.2.0/24
Connected
0
0
172.16.3.0/24
EIGRP
90
2172416
192.168.110.0/24
OSPF
110
65
192.168.120.0/24
RIP
120
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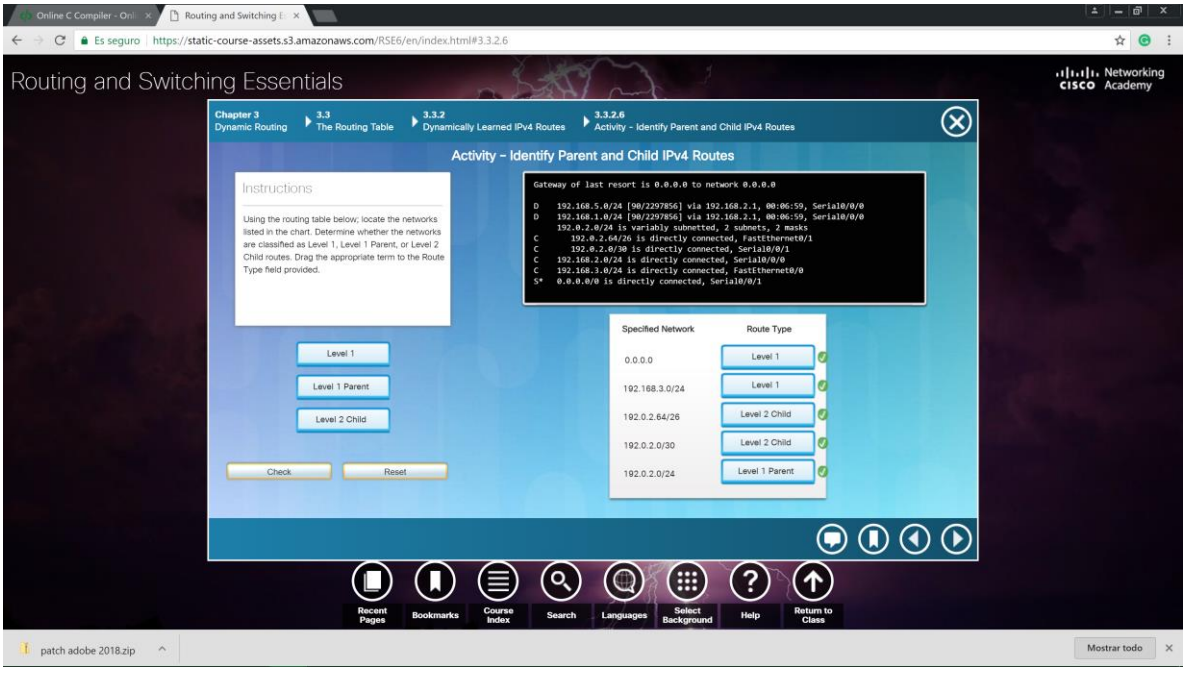
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3.3 The Routing Table
3.3.2 Dynamically Learned IPv4 Routes
3.3.2.6 Activity - Identify Parent and Child IPv4 Routes
Activity – Identify Parent and Child IPv4 Routes
Instructions
Using the routing table below; locate the networks listed in the chart. Determine whether the networks are classified as Level 1, Level 1 Parent, or Level 2 Child routes. Drag the appropriate term to the Route Type field provided.
Gateway of last resort is 0.0.0.0 to network 0.0.0.0
D 192.168.5.0/24 [90/2297856] via 192.168.2.1, 00:06:59, Serial0/0/0
D 192.168.1.0/24 [90/2297856] via 192.168.2.1, 00:06:59, Serial0/0/0
192.0.2.0/24 is variably subnetted, 2 subnets, 2 masks
C 192.0.2.64/26 is directly connected, FastEthernet0/1
C 192.0.2.0/30 is directly connected, Serial0/0/1
C 192.168.2.0/24 is directly connected, Serial0/0/0
C 192.168.3.0/24 is directly connected, FastEthernet0/0
S* 0.0.0.0/0 is directly connected, Serial0/0/1
Level 1
Level 1 Parent
Level 2 Child
Check
Reset
Specified Network
Route Type
0.0.0.0
Level 1
192.168.3.0/24
Level 1
192.0.2.64/26
Level 2 Child
192.0.2.0/30
Level 2 Child
192.0.2.0/24
Level 1 Parent
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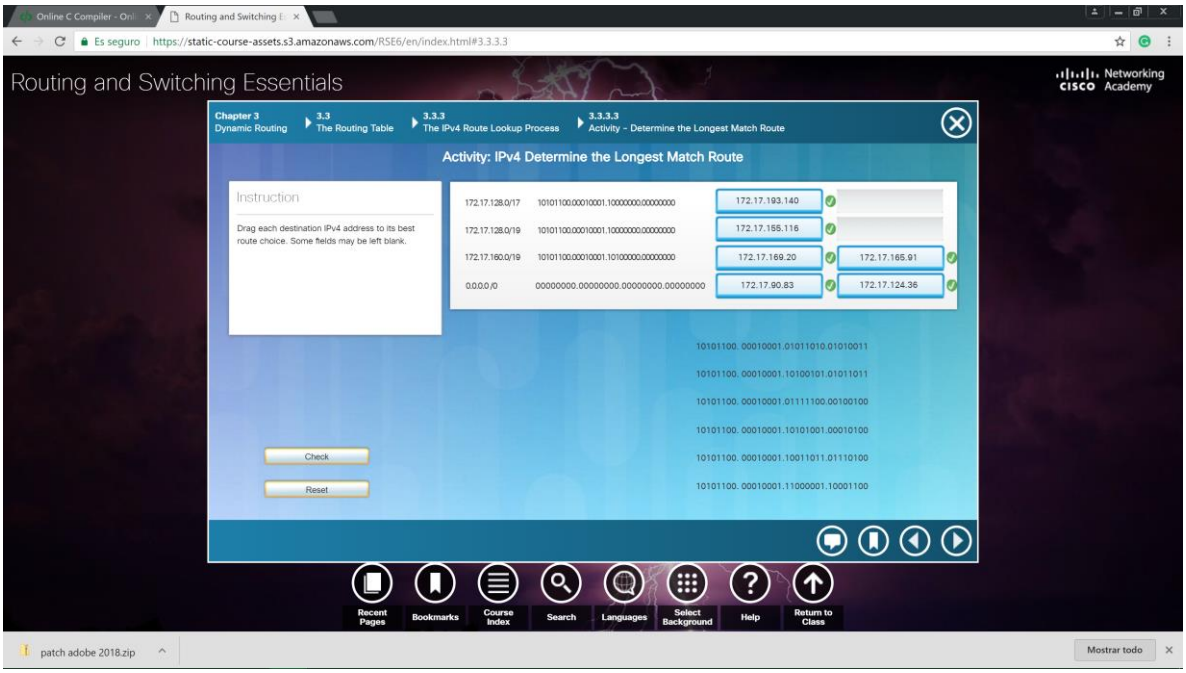
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3.3.3 The IPv4 Route Lookup Process
3.3.3.3 Activity - Determine the Longest Match Route
Activity: IPv4 Determine the Longest Match Route
Instruction
Drag each destination IPv4 address to its best route choice. Some fields may be left blank.
172.17.128.0/17
10101100.00010001.10000000.00000000
172.17.193.140
172.17.128.0/19
10101100.00010001.10000000.00000000
172.17.155.116
172.17.160.0/19
10101100.00010001.10100000.00000000
172.17.169.20
172.17.165.91
0.0.0.0/0
00000000.00000000.00000000.00000000
172.17.90.83
172.17.124.36
10101100. 00010001.01011010.01010011
10101100. 00010001.10100101.01011011
10101100. 00010001.01111100.00100100
10101100. 00010001.10101001.00010100
10101100. 00010001.10011011.01110100
10101100. 00010001.11000001.10001100
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3.3.4 Analyze an IPv6 Routing Table
3.3.4.4 Activity - Identify Parts of an IPv6 Routing Table Entry
Activity – Part 1: Identify Parts of an IPv6 Routing Table Entry
Instructions
Analyze the IPv6 routing table to determine the route source, administrative distance, and outgoing interface for the specified network. Drag each value to its corresponding field in the table. Click Button 2 to continue this activity.
Route Source
Administrative Distance
Outgoing Interface
Connected
0
Serial 0/0/0
Specified Network: 2001:DB8:CAFE:A001::/64
90
Local Route
EIGRP
3523840
Gigabit Ethernet 0/0
Gigabit Ethernet 0/1
Check
Reset
R1# show ipv6 route
C 2001:DB8:CAFE:1::/64 [0/0]
via GigabitEthernet0/0, directly connected
L 2001:DB8:CAFE:1::1/128 [0/0]
via GigabitEthernet0/0, receive
D 2001:DB8:CAFE:2::/64 [90/3524096]
via FE80::3, Serial0/0/1
D 2001:DB8:CAFE:3::/64 [90/2170112]
via FE80::3, Serial0/0/1
C 2001:DB8:CAFE:A001::/64 [0/0]
via Serial0/0/0, directly connected
L 2001:DB8:CAFE:A001::1/128 [0/0]
via Serial0/0/0, receive
D 2001:DB8:CAFE:A002::/64 [90/3523840]
via FE80::3, Serial0/0/1
R1#
1
2
3
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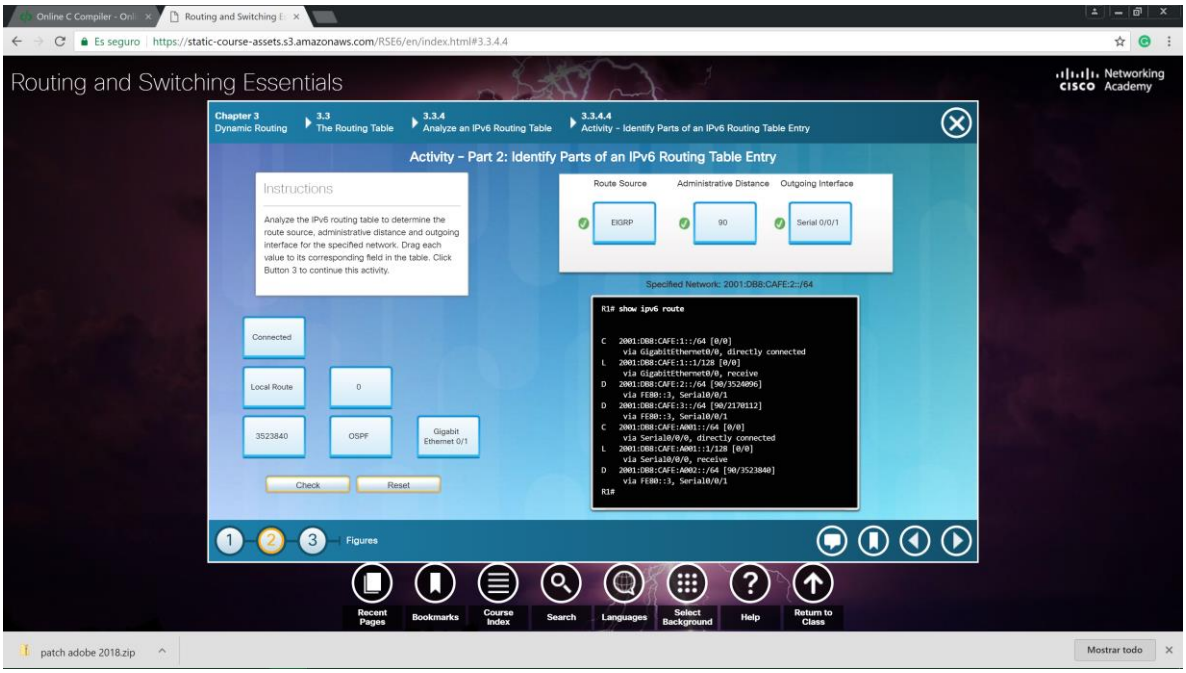
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3.3.4 Analyze an IPv6 Routing Table
3.3.4.4 Activity - Identify Parts of an IPv6 Routing Table Entry
Activity – Part 2: Identify Parts of an IPv6 Routing Table Entry
Instructions
Analyze the IPv6 routing table to determine the route source, administrative distance and outgoing interface for the specified network. Drag each value to its corresponding field in the table. Click Button 3 to continue this activity.
Route Source
Administrative Distance
Outgoing Interface
EIGRP
90
Serial 0/0/1
Specified Network: 2001:DB8:CAFE:2::/64
R1# show ipv6 route
C 2001:DB8:CAFE:1::/64 [0/0]
via GigabitEthernet0/0, directly connected
L 2001:DB8:CAFE:1::1/128 [0/0]
via GigabitEthernet0/0, receive
D 2001:DB8:CAFE:2::/64 [90/3524096]
via FE80::3, Serial0/0/1
D 2001:DB8:CAFE:3::/64 [90/2170112]
via FE80::3, Serial0/0/1
C 2001:DB8:CAFE:A001::/64 [0/0]
via Serial0/0/0, directly connected
L 2001:DB8:CAFE:A001::1/128 [0/0]
via Serial0/0/0, receive
D 2001:DB8:CAFE:A002::/64 [90/3523840]
via FE80::3, Serial0/0/1
R1#
Connected
Local Route
0
3523840
OSPF
Gigabit Ethernet 0/1
Check
Reset
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3.3.4.4 Activity - Identify Parts of an IPv6 Routing Table Entry
Activity – Part 3: Identify Parts of an IPv6 Routing Table Entry
Instructions
Analyze the IPv6 routing table to determine the route source, administrative distance and outgoing interface for the specified network. Drag each value to its corresponding field in the table.
Route Source
Administrative Distance
Outgoing Interface
Local Route
0
Gigabit Ethernet 0/0
Specified Network: 2001:DB8:CAFE:1::1/128
R1# show ipv6 route
C 2001:DB8:CAFE:1::/64 [0/0]
via GigabitEthernet0/0, directly connected
L 2001:DB8:CAFE:1::1/128 [0/0]
via GigabitEthernet0/0, receive
D 2001:DB8:CAFE:2::/64 [90/3524096]
via FE80::3, Serial0/0/1
D 2001:DB8:CAFE:3::/64 [90/2170112]
via FE80::3, Serial0/0/1
C 2001:DB8:CAFE:A001::/64 [0/0]
via Serial0/0/0, directly connected
L 2001:DB8:CAFE:A001::1/128 [0/0]
via Serial0/0/0, receive
D 2001:DB8:CAFE:A002::/64 [90/3523840]
via FE80::3, Serial0/0/1
R1#
Connected
Serial 0/0/0
90
EIGRP
3523840
OSPF
Check
Reset
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